

## Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID: ssptacrs1614

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

NEWS 1 Web Page for STN Seminar Schedule - N. America  
NEWS 2 DEC 01 ChemPort single article sales feature unavailable  
NEWS 3 APR 03 CAS coverage of exemplified prophetic substances enhanced  
NEWS 4 APR 07 STN is raising the limits on saved answers  
NEWS 5 APR 24 CA/CAplus now has more comprehensive patent assignee information  
NEWS 6 APR 26 USPATFULL and USPAT2 enhanced with patent assignment/reassignment information  
NEWS 7 APR 28 CAS patent authority coverage expanded  
NEWS 8 APR 28 ENCOMPLIT/ENCOMPLIT2 search fields enhanced  
NEWS 9 APR 28 Limits doubled for structure searching in CAS REGISTRY  
NEWS 10 MAY 08 STN Express, Version 8.4, now available  
NEWS 11 MAY 11 STN on the Web enhanced  
NEWS 12 MAY 11 BEILSTEIN substance information now available on STN Easy  
NEWS 13 MAY 14 DGENE, PCTGEN and USGENE enhanced with increased limits for exact sequence match searches and introduction of free HIT display format  
NEWS 14 MAY 15 INPADOCDB and INPAFAMDB enhanced with Chinese legal status data  
NEWS 15 MAY 28 CAS databases on STN enhanced with NANO super role in records back to 1992  
NEWS 16 JUN 01 CAS REGISTRY Source of Registration (SR) searching enhanced on STN

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,  
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

NEWS HOURS      STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN      Welcome Banner and News Items

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN customer agreement. This agreement limits use to scientific research. Use for software development or design, implementation of commercial gateways, or use of CAS and STN data in the building of commercial products is prohibited and may result in loss of user privileges and other penalties.

FILE 'HOME' ENTERED AT 12:45:12 ON 10 JUN 2009

```
=> file registry
COST IN U.S. DOLLARS          SINCE FILE          TOTAL
                                ENTRY          SESSION
FULL ESTIMATED COST          0.22          0.22
```

FILE 'REGISTRY' ENTERED AT 12:45:29 ON 10 JUN 2009  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
 COPYRIGHT (C) 2009 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file  
 provided by InfoChem.

STRUCTURE FILE UPDATES: 8 JUN 2009 HIGHEST RN 1154048-98-2  
 DICTIONARY FILE UPDATES: 8 JUN 2009 HIGHEST RN 1154048-98-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

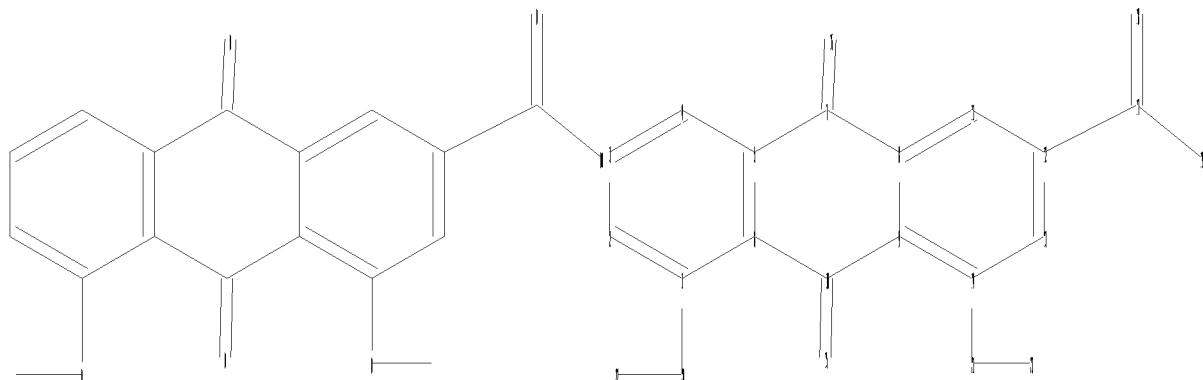
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
 predicted properties as well as tags indicating availability of  
 experimental property data in the original document. For information  
 on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

```
=>
Uploading C:\Program Files\STNEXP\Queries\10591157.str
```



```
chain nodes :
15 16 17 18 19 20 21 22 23
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14
chain bonds :
1-20 7-16 10-15 12-17 14-21 17-18 17-19 20-22 21-23
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 8-11 9-10 9-14 11-12 12-13
13-14
exact/norm bonds :
1-20 5-7 6-10 7-8 7-16 9-10 10-15 14-21 20-22 21-23
exact bonds :
12-17
normalized bonds :
```

1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-11 9-14 11-12 12-13 13-14 17-18 17-19

Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS  
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS

L1 STRUCTURE UPLOADED

=> s 11 sss ful  
FULL SEARCH INITIATED 12:45:44 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 2230 TO ITERATE

100.0% PROCESSED 2230 ITERATIONS 63 ANSWERS  
SEARCH TIME: 00.00.01

L2 63 SEA SSS FUL L1

=> d 12 ibib abs 1-63  
'IBIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'  
'ABS' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN  
SAM - Index Name, MF, and structure - no RN  
FIDE - All substance data, except sequence data  
IDE - FIDE, but only 50 names  
SQIDE - IDE, plus sequence data  
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used  
SQD - Protein sequence data, includes RN  
SQD3 - Same as SQD, but 3-letter amino acid codes are used  
SQN - Protein sequence name information, includes RN  
  
EPROP - Table of experimental properties  
PPROP - Table of predicted properties  
PROP - EPROP, ETAG, PPROP and SPEC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract  
APPS -- Application and Priority Information  
BIB -- CA Accession Number, plus Bibliographic Data  
CAN -- CA Accession Number  
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)  
IND -- Index Data  
IPC -- International Patent Classification  
PAT -- PI, SO  
STD -- BIB, IPC, and NCL  
  
IABS -- ABS, indented, with text labels  
IBIB -- BIB, indented, with text labels

ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)  
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations  
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.  
HELP FORMATS -- To see detailed descriptions of the predefined formats.  
ENTER DISPLAY FORMAT (IDE):end

=> d 1 12 1-63  
'L' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG	- RN
SAM	- Index Name, MF, and structure - no RN
FIDE	- All substance data, except sequence data
IDE	- FIDE, but only 50 names
SQIDE	- IDE, plus sequence data
SQIDE3	- Same as SQIDE, but 3-letter amino acid codes are used
SQD	- Protein sequence data, includes RN
SQD3	- Same as SQD, but 3-letter amino acid codes are used
SQN	- Protein sequence name information, includes RN
EPROP	- Table of experimental properties
PPROP	- Table of predicted properties
PROP	- EPROP, ETAG, PPROP and SPEC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS	-- Abstract
APPS	-- Application and Priority Information
BIB	-- CA Accession Number, plus Bibliographic Data
CAN	-- CA Accession Number
CBIB	-- CA Accession Number, plus Bibliographic Data (compressed)
IND	-- Index Data
IPC	-- International Patent Classification
PATS	-- PI, SO
STD	-- BIB, IPC, and NCL
IABS	-- ABS, indented, with text labels
IBIB	-- BIB, indented, with text labels
ISTD	-- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)  
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations  
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

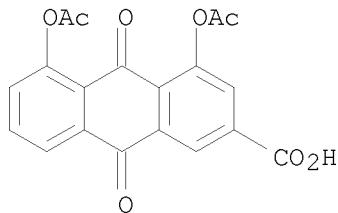
HELP DFIELDS -- To see a complete list of individual display fields.  
HELP FORMATS -- To see detailed descriptions of the predefined formats.  
ENTER DISPLAY FORMAT (IDE):end

=> d 12 1-63

L2 ANSWER 1 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 1024003-23-3 REGISTRY  
ED Entered STN: 30 May 2008  
CN Hyaluronic acid, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-2-anthracenecarboxylate (ester) (CA INDEX NAME)  
MF C19 H12 O8 . x Unspecified  
PCT Manual registration, Polyester, Polyester formed  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

CM 1

CRN 13739-02-1  
CMF C19 H12 O8



CM 2

CRN 9004-61-9  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 942153-10-8 REGISTRY  
ED Entered STN: 11 Jul 2007  
CN Adenosine, 5'-[[ (3S)-3-amino-3-carboxypropyl]methylsulfonio]-5'-deoxy-,

inner salt, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-2-anthracenecarboxylate (1:1) (CA INDEX NAME)

OTHER NAMES:

CN Diacerein-S-adenosylmethionine mixt.

FS STEREOSEARCH

MF C19 H12 O8 . C15 H22 N6 O5 S

SR CA

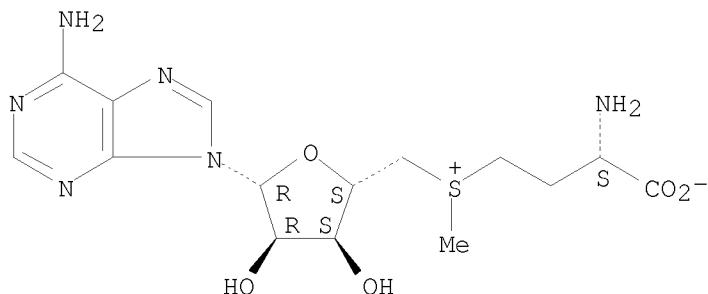
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

CRN 29908-03-0

CMF C15 H22 N6 O5 S

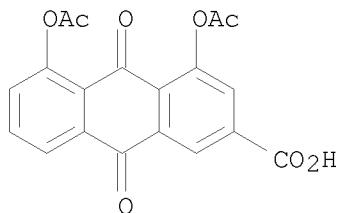
Absolute stereochemistry.



CM 2

CRN 13739-02-1

CMF C19 H12 O8



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN

RN 942120-35-6 REGISTRY

ED Entered STN: 11 Jul 2007

CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-, mixt. with N-(4-hydroxyphenyl)acetamide (CA INDEX NAME)

MF C19 H12 O8 . C8 H9 N O2

CI MXS

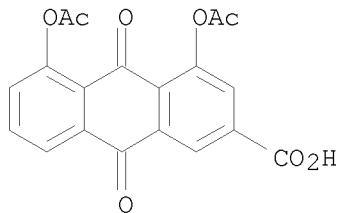
SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

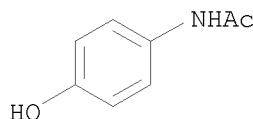
CRN 13739-02-1

CMF C19 H12 O8



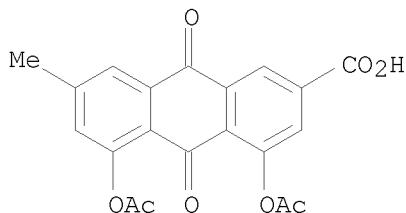
CM 2

CRN 103-90-2  
CMF C8 H9 N O2



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 4 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 873431-40-4 REGISTRY  
ED Entered STN: 03 Feb 2006  
CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-7-methyl-9,10-dioxo- (CA INDEX NAME)  
MF C20 H14 O8  
SR CA  
LC STN Files: CA, CAPLUS

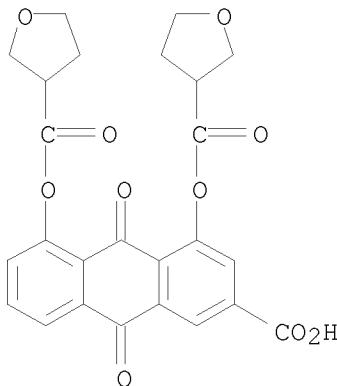


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 5 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 864652-92-6 REGISTRY  
ED Entered STN: 07 Oct 2005  
CN 3-Furancarboxylic acid, tetrahydro-, 3-carboxy-9,10-dihydro-9,10-dioxo-1,8-anthracenediyl ester (9CI) (CA INDEX NAME)  
MF C25 H20 O10

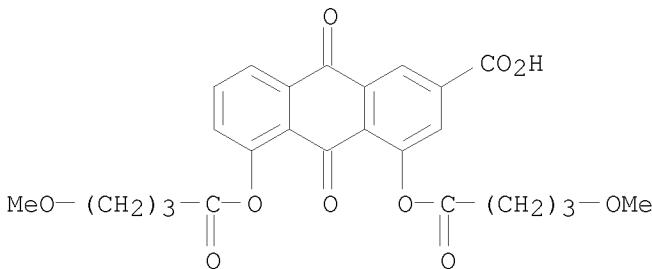
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 6 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 864652-91-5 REGISTRY  
ED Entered STN: 07 Oct 2005  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5-bis(4-methoxy-1-oxobutoxy)-9,10-dioxo- (CA INDEX NAME)  
MF C25 H24 O10  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER

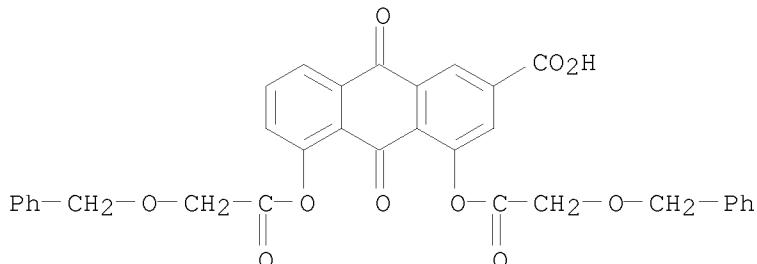


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 7 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 864652-90-4 REGISTRY  
ED Entered STN: 07 Oct 2005  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-bis[[2-(phenylmethoxy)acetyl]oxy]- (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-bis[[2-(phenylmethoxy)acetyl]oxy]- (9CI)

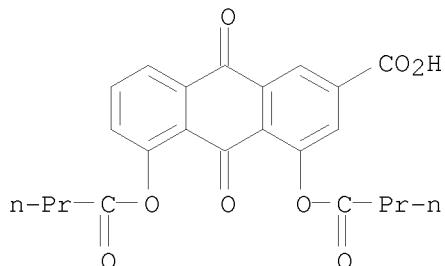
MF C33 H24 O10  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

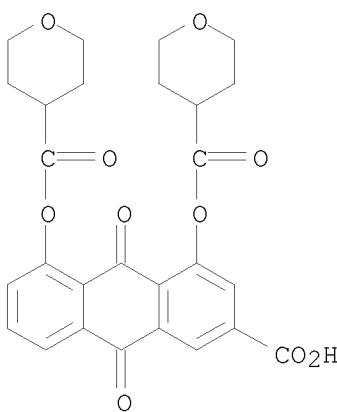
L2 ANSWER 8 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 864652-89-1 REGISTRY  
ED Entered STN: 07 Oct 2005  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-bis(1-oxobutoxy)- (CA INDEX NAME)  
MF C23 H20 O8  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

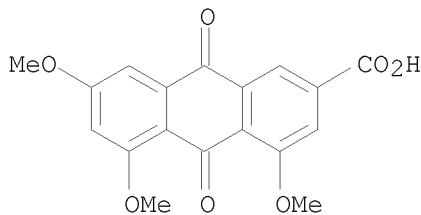
L2 ANSWER 9 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 864652-88-0 REGISTRY  
ED Entered STN: 07 Oct 2005  
CN 2H-Pyran-4-carboxylic acid, tetrahydro-, 3-carboxy-9,10-dihydro-9,10-dioxo-1,8-anthracenediyl ester (CA INDEX NAME)  
MF C27 H24 O10  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

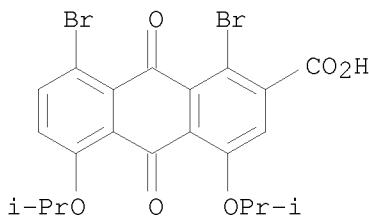
L2 ANSWER 10 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 861790-34-3 REGISTRY  
 ED Entered STN: 25 Aug 2005  
 CN 2-Anthraquinonecarboxylic acid, 4,5,7-trimethoxy-, potassium salt (2CI)  
     (CA INDEX NAME)  
 MF C18 H14 O7 . K  
 SR CAS EARLY REGISTRATIONS  
 LC STN Files: CA, CAPLUS, TOXCENTER  
 CRN (202974-82-1)



● K

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

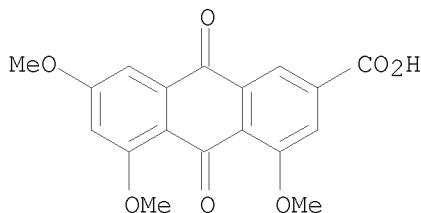
L2 ANSWER 11 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 355022-25-2 REGISTRY  
 ED Entered STN: 06 Sep 2001  
 CN 2-Anthracenecarboxylic acid, 1,8-dibromo-9,10-dihydro-4,5-bis(1-methylethoxy)-9,10-dioxo- (CA INDEX NAME)  
 OTHER NAMES:  
 CN 1,8-Dibromo-9,10-dihydro-4,5-bis(1-methylethoxy)-9,10-dioxo-2-anthracenecarboxylic acid  
 MF C21 H18 Br2 O6  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

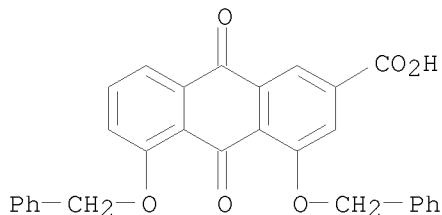
L2 ANSWER 12 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 202974-82-1 REGISTRY  
ED Entered STN: 22 Mar 1998  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5,7-trimethoxy-9,10-dioxo-  
(CA INDEX NAME)  
MF C18 H14 O7  
CI COM  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

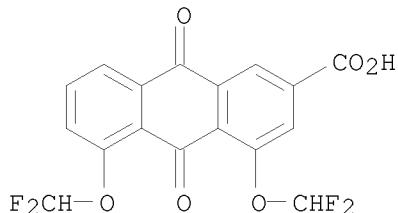
L2 ANSWER 13 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 190514-64-8 REGISTRY  
ED Entered STN: 27 Jun 1997  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-bis(phenylmethoxy)- (CA INDEX NAME)  
MF C29 H20 O6  
SR CA  
LC STN Files: CA, CAPLUS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

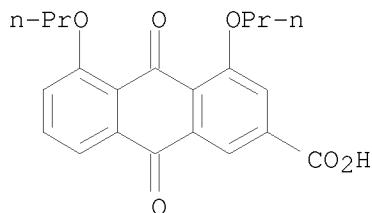
L2 ANSWER 14 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 176106-20-0 REGISTRY  
 ED Entered STN: 09 May 1996  
 CN 2-Anthracene carboxylic acid, 4,5-bis(difluoromethoxy)-9,10-dihydro-9,10-dioxo- (CA INDEX NAME)  
 MF C17 H8 F4 O6  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

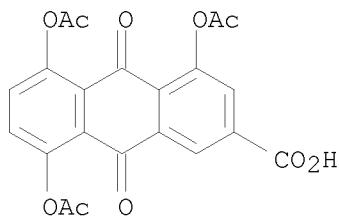
L2 ANSWER 15 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 164228-42-6 REGISTRY  
 ED Entered STN: 29 Jun 1995  
 CN 2-Anthracene carboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-dipropoxy- (CA INDEX NAME)  
 MF C21 H20 O6  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

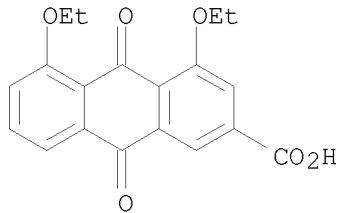
L2 ANSWER 16 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 162975-59-9 REGISTRY  
ED Entered STN: 12 May 1995  
CN 2-Anthracenecarboxylic acid, 4,5,8-tris(acetyloxy)-9,10-dihydro-9,10-dioxo-  
(CA INDEX NAME)  
MF C21 H14 O10  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 17 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 161802-06-8 REGISTRY  
ED Entered STN: 30 Mar 1995  
CN 2-Anthracenecarboxylic acid, 4,5-diethoxy-9,10-dihydro-9,10-dioxo- (CA  
INDEX NAME)  
MF C19 H16 O6  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

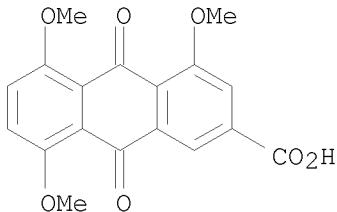


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 18 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 161802-05-7 REGISTRY  
ED Entered STN: 30 Mar 1995

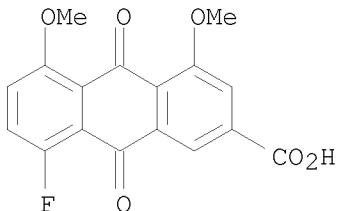
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5,8-trimethoxy-9,10-dioxo-  
(CA INDEX NAME)  
MF C18 H14 O7  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

4 REFERENCES IN FILE CA (1907 TO DATE)  
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

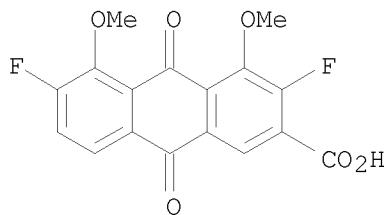
L2 ANSWER 19 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 158095-46-6 REGISTRY  
ED Entered STN: 05 Oct 1994  
CN 2-Anthracenecarboxylic acid, 8-fluoro-9,10-dihydro-4,5-dimethoxy-9,10-dioxo- (CA INDEX NAME)  
MF C17 H11 F O6  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

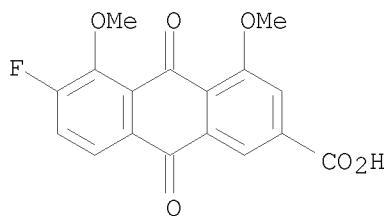
L2 ANSWER 20 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 154658-99-8 REGISTRY  
ED Entered STN: 29 Apr 1994  
CN 2-Anthracenecarboxylic acid, 3,6-difluoro-9,10-dihydro-4,5-dimethoxy-9,10-dioxo- (CA INDEX NAME)  
MF C17 H10 F2 O6  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

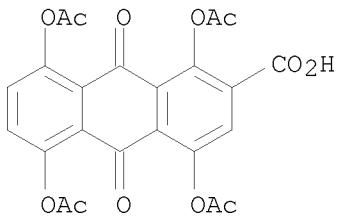
L2 ANSWER 21 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 154658-98-7 REGISTRY  
 ED Entered STN: 29 Apr 1994  
 CN 2-Anthracenecarboxylic acid, 6-fluoro-9,10-dihydro-4,5-dimethoxy-9,10-dioxo- (CA INDEX NAME)  
 MF C17 H11 F O6  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

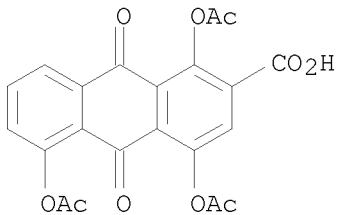
L2 ANSWER 22 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 154658-45-4 REGISTRY  
 ED Entered STN: 29 Apr 1994  
 CN 2-Anthracenecarboxylic acid, 1,4,5,8-tetrakis(acetyloxy)-9,10-dihydro-9,10-dioxo- (CA INDEX NAME)  
 OTHER NAMES:  
 CN 1,4,5,8-Tetraacetoxyanthraquinone-2-carboxylic acid  
 MF C23 H16 O12  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

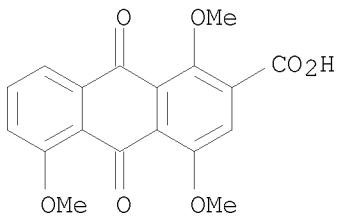
L2 ANSWER 23 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 154658-44-3 REGISTRY  
 ED Entered STN: 29 Apr 1994  
 CN 2-Anthracenecarboxylic acid, 1,4,5-tris(acetyloxy)-9,10-dihydro-9,10-dioxo- (CA INDEX NAME)  
 OTHER NAMES:  
 CN 1,4,5-Triacetoxyanthraquinone-2-carboxylic acid  
 MF C21 H14 O10  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

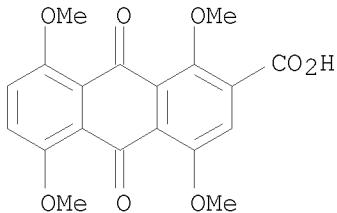
L2 ANSWER 24 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 154658-39-6 REGISTRY  
 ED Entered STN: 29 Apr 1994  
 CN 2-Anthracenecarboxylic acid, 9,10-dihydro-1,4,5-trimethoxy-9,10-dioxo- (CA INDEX NAME)  
 OTHER NAMES:  
 CN 1,4,5-Trimethoxyanthraquinone-2-carboxylic acid  
 MF C18 H14 O7  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

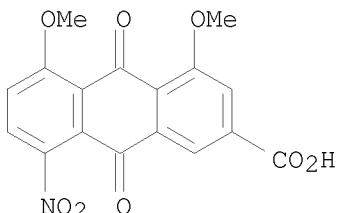
L2 ANSWER 25 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 154658-38-5 REGISTRY  
 ED Entered STN: 29 Apr 1994  
 CN 2-Anthracenecarboxylic acid, 9,10-dihydro-1,4,5,8-tetramethoxy-9,10-dioxo- (CA INDEX NAME)  
 MF C19 H16 O8  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

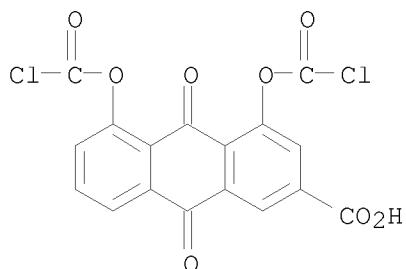
L2 ANSWER 26 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 154658-36-3 REGISTRY  
 ED Entered STN: 29 Apr 1994  
 CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5-dimethoxy-8-nitro-9,10-dioxo- (CA INDEX NAME)  
 MF C17 H11 N O8  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

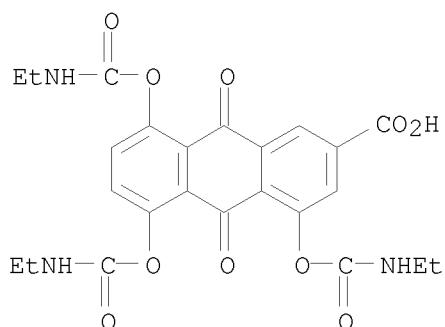
L2 ANSWER 27 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 143700-68-9 REGISTRY  
ED Entered STN: 30 Sep 1992  
CN 2-Anthracenecarboxylic acid, 4,5-bis[(chlorocarbonyl)oxy]-9,10-dihydro-  
9,10-dioxo- (CA INDEX NAME)  
MF C17 H6 Cl2 O8  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

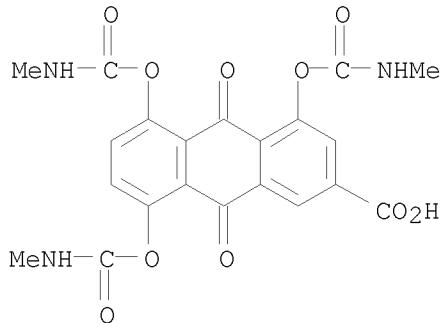
L2 ANSWER 28 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 143700-29-2 REGISTRY  
ED Entered STN: 30 Sep 1992  
CN 2-Anthracenecarboxylic acid, 4,5,8-tris[(ethylamino)carbonyl]oxy]-9,10-  
dihydro-9,10-dioxo- (CA INDEX NAME)  
MF C24 H23 N3 O10  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

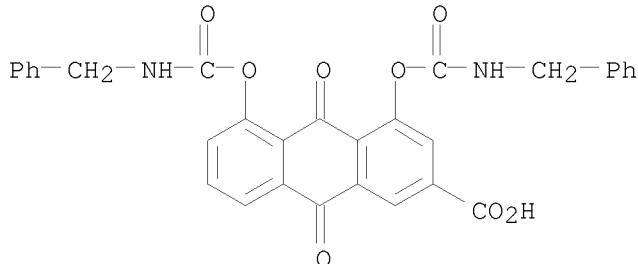
L2 ANSWER 29 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 143700-28-1 REGISTRY  
ED Entered STN: 30 Sep 1992  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5,8-  
tris[[(methylamino)carbonyl]oxy]-9,10-dioxo- (CA INDEX NAME)  
MF C21 H17 N3 O10  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 30 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 143700-27-0 REGISTRY  
ED Entered STN: 30 Sep 1992  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-  
bis[[(phenylmethyl)amino]carbonyl]oxy- (CA INDEX NAME)  
MF C31 H22 N2 O8  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

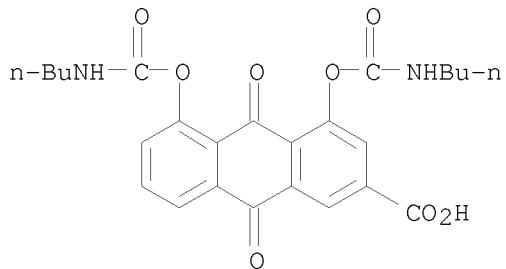


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 31 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN

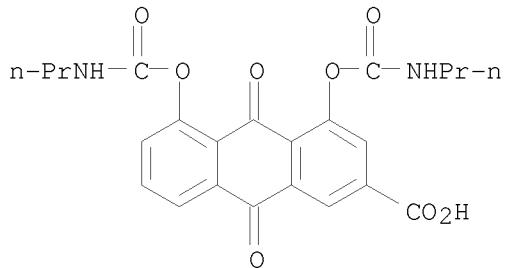
RN 143700-26-9 REGISTRY  
 ED Entered STN: 30 Sep 1992  
 CN 2-Anthracenecarboxylic acid, 4,5-bis[(butylamino)carbonyl]oxy]-9,10-dihydro-9,10-dioxo- (CA INDEX NAME)  
 MF C25 H26 N2 O8  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 32 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 143700-25-8 REGISTRY  
 ED Entered STN: 30 Sep 1992  
 CN 2-Anthracenecarboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-bis[(propylamino)carbonyl]oxy- (CA INDEX NAME)  
 MF C23 H22 N2 O8  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

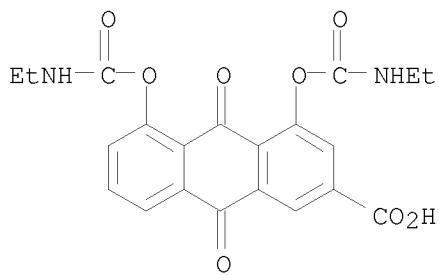


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 33 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 143700-24-7 REGISTRY  
 ED Entered STN: 30 Sep 1992  
 CN 2-Anthracenecarboxylic acid, 4,5-bis[(ethylamino)carbonyl]oxy]-9,10-dihydro-9,10-dioxo- (CA INDEX NAME)  
 MF C21 H18 N2 O8  
 SR CA

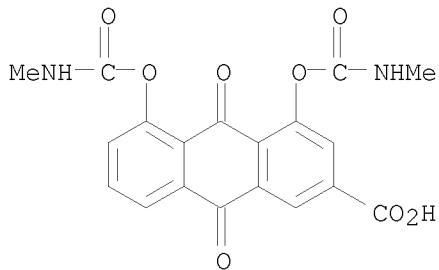
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

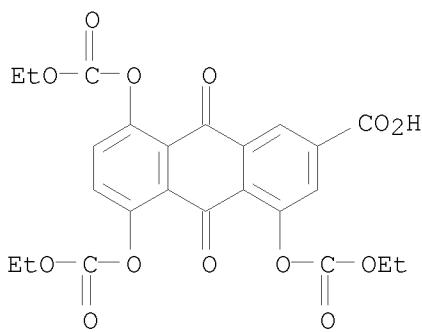
L2 ANSWER 34 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 143700-23-6 REGISTRY  
ED Entered STN: 30 Sep 1992  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5-bis[(methylamino)carbonyl]oxy-9,10-dioxo- (CA INDEX NAME)  
MF C19 H14 N2 O8  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

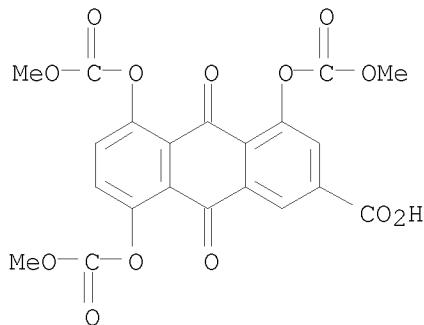
L2 ANSWER 35 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 143700-22-5 REGISTRY  
ED Entered STN: 30 Sep 1992  
CN 2-Anthracenecarboxylic acid, 4,5,8-tris[(ethoxycarbonyl)oxy]-9,10-dihydro-9,10-dioxo- (CA INDEX NAME)  
MF C24 H20 O13  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

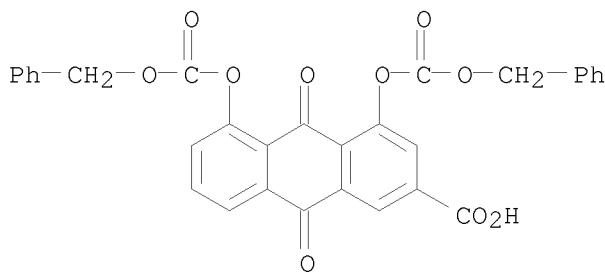
L2 ANSWER 36 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 143700-21-4 REGISTRY  
 ED Entered STN: 30 Sep 1992  
 CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5,8-tris[(methoxycarbonyl)oxy]-9,10-dioxo- (CA INDEX NAME)  
 MF C21 H14 O13  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

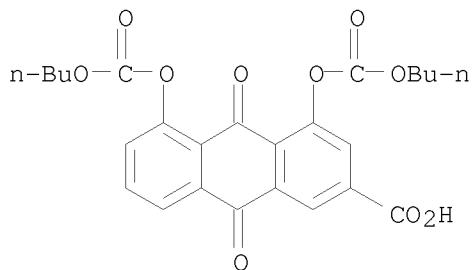
L2 ANSWER 37 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 143700-20-3 REGISTRY  
 ED Entered STN: 30 Sep 1992  
 CN 2-Anthracenecarboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-bis[(phenylmethoxy)carbonyl]oxy- (CA INDEX NAME)  
 MF C31 H20 O10  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

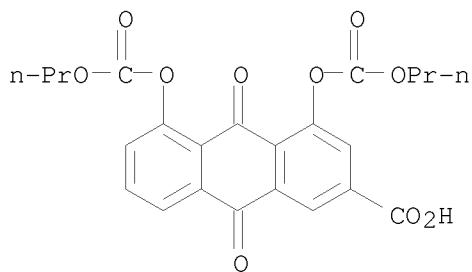
L2 ANSWER 38 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 143700-19-0 REGISTRY  
 ED Entered STN: 30 Sep 1992  
 CN 2-Anthracenecarboxylic acid, 4,5-bis[(butoxycarbonyl)oxy]-9,10-dihydro-9,10-dioxo- (CA INDEX NAME)  
 MF C25 H24 O10  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

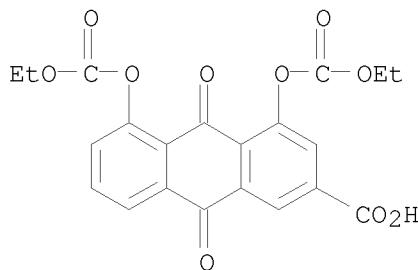
L2 ANSWER 39 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 143700-18-9 REGISTRY  
 ED Entered STN: 30 Sep 1992  
 CN 2-Anthracenecarboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-bis[(propoxycarbonyl)oxy]- (CA INDEX NAME)  
 MF C23 H20 O10  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

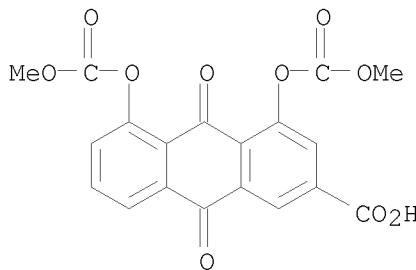
L2 ANSWER 40 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 143700-17-8 REGISTRY  
 ED Entered STN: 30 Sep 1992  
 CN 2-Anthracenecarboxylic acid, 4,5-bis[(ethoxycarbonyl)oxy]-9,10-dihydro-9,10-dioxo- (CA INDEX NAME)  
 MF C21 H16 O10  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

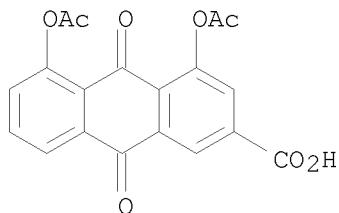
L2 ANSWER 41 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 143700-16-7 REGISTRY  
 ED Entered STN: 30 Sep 1992  
 CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5-bis[(methoxycarbonyl)oxy]-9,10-dioxo- (CA INDEX NAME)  
 MF C19 H12 O10  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

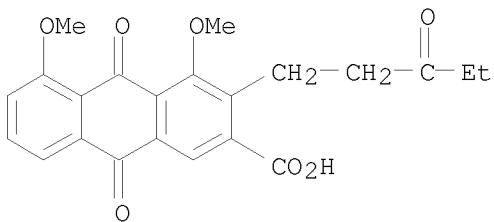
L2 ANSWER 42 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 131817-00-0 REGISTRY  
 ED Entered STN: 01 Feb 1991  
 CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-,  
 magnesium salt (2:1) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-,  
 magnesium salt (9CI)  
 MF C19 H12 O8 . 1/2 Mg  
 SR CA  
 LC STN Files: CA, CAPLUS, IMSPATENTS, IMSRESEARCH, TOXCENTER, USPATFULL  
 CRN (13739-02-1)



●1/2 Mg

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

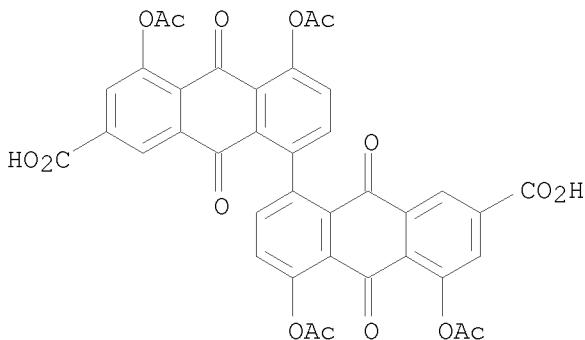
L2 ANSWER 43 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 123077-92-9 REGISTRY  
 ED Entered STN: 06 Oct 1989  
 CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5-dimethoxy-9,10-dioxo-3-(3-  
 oxopentyl)- (CA INDEX NAME)  
 MF C22 H20 O7  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, TOXCENTER  
 (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

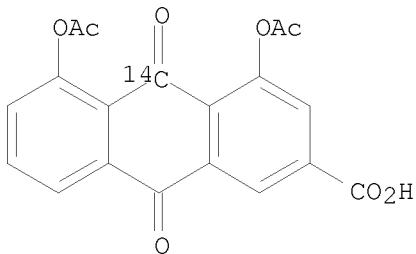
L2 ANSWER 44 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 116378-67-7 REGISTRY  
 ED Entered STN: 17 Sep 1988  
 CN [1,1'-Bianthracene]-7,7'-dicarboxylic acid,  
 4,4',5,5'-tetraakis(acetyloxy)-9,9',10,10'-tetrahydro-9,9',10,10'-tetraoxo-  
 (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN [1,1'-Bianthraquinone]-7,7'-dicarboxylic acid, 4,4',5,5'-tetrahydroxy-,  
 tetraacetate (6CI)  
 MF C38 H22 O16  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS  
 (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

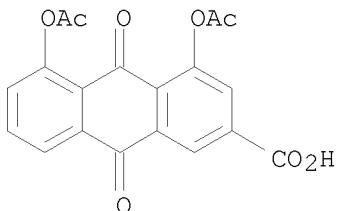
2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 45 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 115436-68-5 REGISTRY  
 ED Entered STN: 23 Jul 1988  
 CN 2-Anthracene-10-14C-carboxylic acid,  
 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo- (9CI) (CA INDEX NAME)  
 MF C19 H12 O8  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, IMSPATENTS, IMSRESEARCH



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

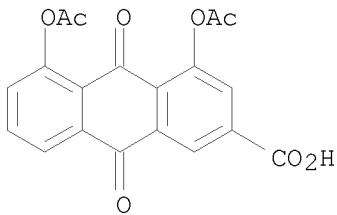
L2 ANSWER 46 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 112118-19-1 REGISTRY  
 ED Entered STN: 01 Jan 1988  
 CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-,  
 calcium salt (2:1) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-,  
 calcium salt (9CI)  
 OTHER NAMES:  
 CN Di-O-acetyl rhein calcium salt  
 MF C19 H12 O8 . 1/2 Ca  
 SR CA  
 LC STN Files: CA, CAPLUS, IMSPATENTS, IMSRESEARCH, TOXCENTER, USPATFULL  
 CRN (13739-02-1)



●1/2 Ca

2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

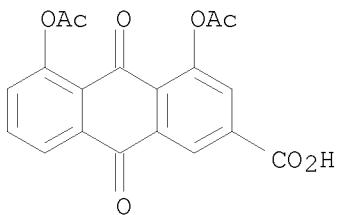
L2 ANSWER 47 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 112118-18-0 REGISTRY  
 ED Entered STN: 01 Jan 1988  
 CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-,  
 potassium salt (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN Di-O-acetyl rhein potassium salt  
 MF C19 H12 O8 . K  
 SR CA  
 LC STN Files: CA, CAPLUS, IMSPATENTS, IMSRESEARCH, TOXCENTER, USPATFULL  
 CRN (13739-02-1)



● K

3 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

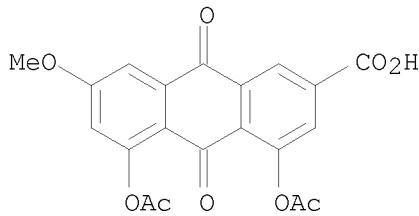
L2 ANSWER 48 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 112118-17-9 REGISTRY  
 ED Entered STN: 01 Jan 1988  
 CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-,  
 sodium salt (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN Di-O-acetyl rhein sodium salt  
 MF C19 H12 O8 . Na  
 SR CA  
 LC STN Files: CA, CAPLUS, IMSPATENTS, IMSRESEARCH, TOXCENTER, USPATFULL  
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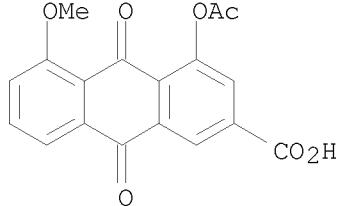
L2 ANSWER 49 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 102555-69-1 REGISTRY  
 ED Entered STN: 07 Jun 1986  
 CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-7-methoxy-  
 9,10-dioxo- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 2-Anthraquinonecarboxylic acid, 4,5-dihydroxy-7-methoxy-, diacetate (6CI)  
 MF C20 H14 O9  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

4 REFERENCES IN FILE CA (1907 TO DATE)  
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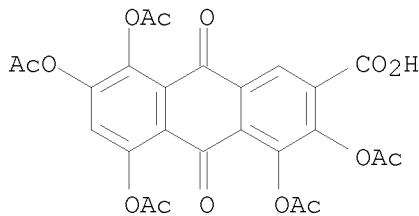
L2 ANSWER 50 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 101875-41-6 REGISTRY  
 ED Entered STN: 04 May 1986  
 CN 2-Anthracenecarboxylic acid, 4-(acetyloxy)-9,10-dihydro-5-methoxy-9,10-dioxo- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 2-Anthraquinonecarboxylic acid, 4-hydroxy-5-methoxy-, acetate (6CI)  
 MF C18 H12 O7  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS  
 (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
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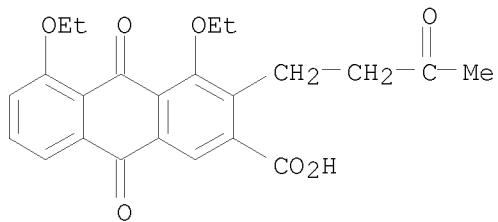
L2 ANSWER 51 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 96578-47-1 REGISTRY  
 ED Entered STN: 03 Jun 1985  
 CN 2-Anthracenecarboxylic acid, 3,4,5,7,8-pentakis(acetyloxy)-9,10-dihydro-9,10-dioxo- (CA INDEX NAME)  
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 CN 2-Anthroic acid, 9,10-dihydro-3,4,5,7,8-pentahydroxy-9,10-dioxo-, pentaacetate (7CI)  
 MF C25 H18 O14  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS  
 (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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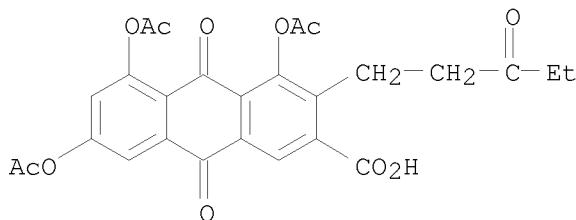
L2 ANSWER 52 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 95455-49-5 REGISTRY  
 ED Entered STN: 23 Mar 1985  
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 MF C23 H22 O7  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS  
 (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

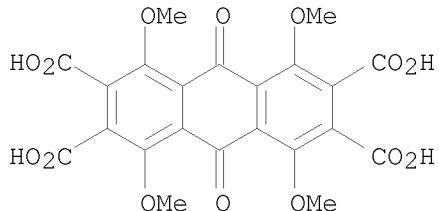
L2 ANSWER 53 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 92838-38-5 REGISTRY  
 ED Entered STN: 17 Dec 1984  
 CN 2-Anthracenecarboxylic acid, 4,5,7-tris(acetyloxy)-9,10-dihydro-9,10-dioxo-3-(3-oxopentyl)- (CA INDEX NAME)  
 MF C26 H22 O11  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS  
 (\*File contains numerically searchable property data)



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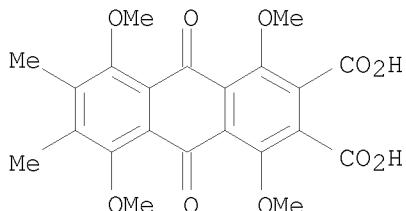
L2 ANSWER 54 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 87998-39-8 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN 2,3,6,7-Anthracenetetracarboxylic acid,  
9,10-dihydro-1,4,5,8-tetramethoxy-9,10-dioxo- (CA INDEX NAME)  
MF C22 H16 O14  
LC STN Files: CA, CAPLUS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 55 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 87998-38-7 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN 2,3-Anthracenedicarboxylic acid, 9,10-dihydro-1,4,5,8-tetramethoxy-6,7-dimethyl-9,10-dioxo- (CA INDEX NAME)  
MF C22 H20 O10  
LC STN Files: CA, CAPLUS



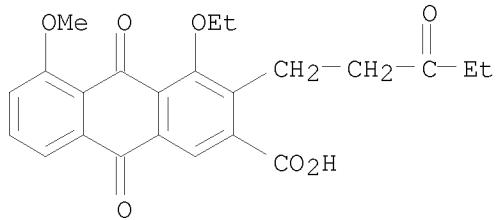
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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 56 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 82247-62-9 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN 2-Anthracenecarboxylic acid, 4-ethoxy-9,10-dihydro-5-methoxy-9,10-dioxo-3-(3-oxopentyl)- (CA INDEX NAME)

MF C23 H22 O7

LC STN Files: BEILSTEIN\*, CA, CAPLUS  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 57 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN

RN 81686-02-4 REGISTRY

ED Entered STN: 16 Nov 1984

CN 2-Anthracenecarboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-bis(1-oxopropoxy)-  
(CA INDEX NAME)

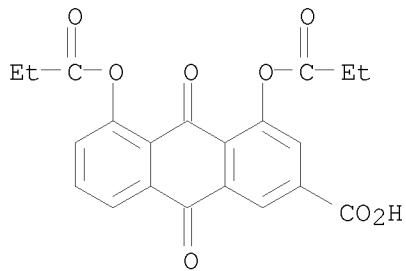
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CN 1,8-Dipropionyloxy-3-carboxyanthraquinone

CN 4,5-Dipropionylrhein

MF C21 H16 O8

LC STN Files: BEILSTEIN\*, BIOSIS, CA, CAPLUS, EMBASE, TOXCENTER, USPATFULL  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5 REFERENCES IN FILE CA (1907 TO DATE)  
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 58 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN

RN 81686-01-3 REGISTRY

ED Entered STN: 16 Nov 1984

CN 2-Anthracenecarboxylic acid, 4,5-bis(benzoyloxy)-9,10-dihydro-9,10-dioxo-  
(CA INDEX NAME)

OTHER NAMES:

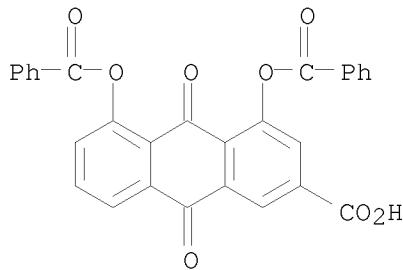
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CN 4,5-Dibenzoylrhein

CN Dibenzoylrhein

MF C29 H16 O8

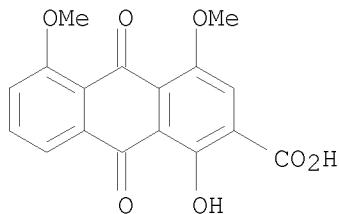
LC STN Files: BEILSTEIN\*, BIOSIS, CA, CAPLUS, EMBASE, TOXCENTER  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

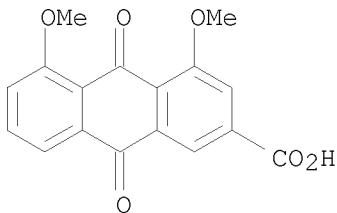
L2 ANSWER 59 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 72049-26-4 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-1-hydroxy-4,5-dimethoxy-9,10-dioxo- (CA INDEX NAME)  
MF C17 H12 O7  
LC STN Files: BEILSTEIN\*, CA, CAPLUS  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

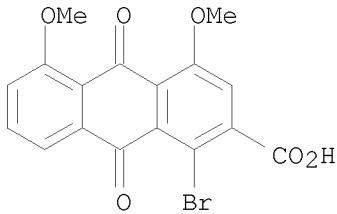
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RN 72049-24-2 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5-dimethoxy-9,10-dioxo- (CA INDEX NAME)  
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CN 2-Anthraquinonecarboxylic acid, 4,5-dimethoxy- (6CI)  
OTHER NAMES:  
CN 4,5-Dimethoxyanthraquinone-2-carboxylic acid  
MF C17 H12 O6  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER, USPATFULL  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

9 REFERENCES IN FILE CA (1907 TO DATE)  
 9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

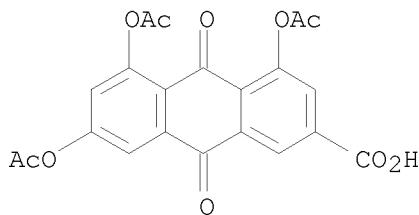
L2 ANSWER 61 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 72049-23-1 REGISTRY  
 ED Entered STN: 16 Nov 1984  
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 LC STN Files: BEILSTEIN\*, CA, CAPLUS  
     (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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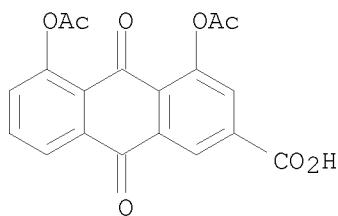
L2 ANSWER 62 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 61350-19-4 REGISTRY  
 ED Entered STN: 16 Nov 1984  
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     (CA INDEX NAME)  
 OTHER NAMES:  
 CN Emodic acid triacetate  
 MF C21 H14 O10  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, TOXCENTER  
     (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

9 REFERENCES IN FILE CA (1907 TO DATE)  
 9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 63 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 13739-02-1 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 2-Anthroic acid, 9,10-dihydro-4,5-dihydroxy-9,10-dioxo-, diacetate (8CI)  
 CN Rhein, diacetate (6CI)  
 OTHER NAMES:  
 CN 1,8-Diacetoxy-3-carboxyanthraquinone  
 CN 4,5-Diacetoxyanthraquinone-2-carboxylic acid  
 CN 4,5-Diacetyl rhein  
 CN Artrodar  
 CN DAR  
 CN Diacerein  
 CN Diacerhein  
 CN Diacetyl rhein  
 CN Fisiadar  
 CN SF 277  
 MF C19 H12 O8  
 CI COM  
 LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, IMSDRUGNEWS, IMSPATENTS, IMSPRODUCT, IMSRESEARCH, IPA, MEDLINE, MRCK\*, NAPRALERT, PHAR, PROMT, PROUSDDR, PS, RTECS\*, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*, WHO  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

193 REFERENCES IN FILE CA (1907 TO DATE)  
7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
196 REFERENCES IN FILE CAPLUS (1907 TO DATE)

FILE 'CAPLUS' ENTERED AT 13:08:53 ON 10 JUN 2009  
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FILE COVERS 1907 - 10 Jun 2009 VOL 150 ISS 24  
FILE LAST UPDATED: 9 Jun 2009 (20090609/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CPlus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

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Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.
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L4 1 L3

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L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN  
AN 1992:591514 CAPLUS  
DN 117:191514

OREF 117:33063a,33066a  
 TI Preparation of 4,5-dihydroxy- and 4,5,8-trihydroxy-9,10-dihydro-9,10-dioxo-2-anthracenecarboxylic acid dicarbonates and urethanes having therapeutic (antiarthritic) activities  
 IN Rosini, Sergio; Mian, Maurizio  
 PA Istituto Gentili S.p.A., Italy  
 SO PCT Int. Appl., 16 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9210464	A1	19920625	WO 1991-EP2290	19911203
	W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, PL, RO, SD, SU, US				
	RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG				
	CA 2098112	A1	19920611	CA 1991-2098112	19911203
	AU 9190157	A	19920708	AU 1991-90157	19911203
	AU 657290	B2	19950309		
	EP 561846	A1	19930929	EP 1991-920850	19911203
	EP 561846	B1	19950322		
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	JP 06503078	T	19940407	JP 1992-500339	19911203
AT 120180	T	19950415	AT 1991-920850	19911203	
ES 2069915	T3	19950516	ES 1991-920850	19911203	
US 5362750	A	19941108	US 1993-70382	19930607	
PRAI	IT 1990-22343	A	19901211		
	WO 1991-EP2290	A	19911203		
OS	MARPAT 117:191514				
RE.CNT 3	THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD				
	ALL CITATIONS AVAILABLE IN THE RE FORMAT				

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:y
COST IN U.S. DOLLARS          SINCE FILE          TOTAL
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FULL ESTIMATED COST          13.49      347.96

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STN INTERNATIONAL LOGOFF AT 13:21:05 ON 10 JUN 2009

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

NEWS	2	DEC 01	ChemPort single article sales feature unavailable
NEWS	3	APR 03	CAS coverage of exemplified prophetic substances enhanced
NEWS	4	APR 07	STN is raising the limits on saved answers
NEWS	5	APR 24	CA/CAplus now has more comprehensive patent assignee information
NEWS	6	APR 26	USPATFULL and USPAT2 enhanced with patent assignment/reassignment information
NEWS	7	APR 28	CAS patent authority coverage expanded
NEWS	8	APR 28	ENCOMPLIT/ENCOMPLIT2 search fields enhanced
NEWS	9	APR 28	Limits doubled for structure searching in CAS REGISTRY
NEWS	10	MAY 08	STN Express, Version 8.4, now available
NEWS	11	MAY 11	STN on the Web enhanced
NEWS	12	MAY 11	BEILSTEIN substance information now available on STN Easy
NEWS	13	MAY 14	DGENE, PCTGEN and USGENE enhanced with increased limits for exact sequence match searches and introduction of free HIT display format
NEWS	14	MAY 15	INPADOCDB and INPAFAMDB enhanced with Chinese legal status data
NEWS	15	MAY 28	CAS databases on STN enhanced with NANO super role in records back to 1992
NEWS	16	JUN 01	CAS REGISTRY Source of Registration (SR) searching enhanced on STN

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,  
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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=> file registr		SINCE FILE	TOTAL
COST IN U.S. DOLLARS		ENTRY	SESSION
FULL ESTIMATED COST		0.22	0.22

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STRUCTURE FILE UPDATES: 8 JUN 2009 HIGHEST RN 1154048-98-2  
DICTIONARY FILE UPDATES: 8 JUN 2009 HIGHEST RN 1154048-98-2

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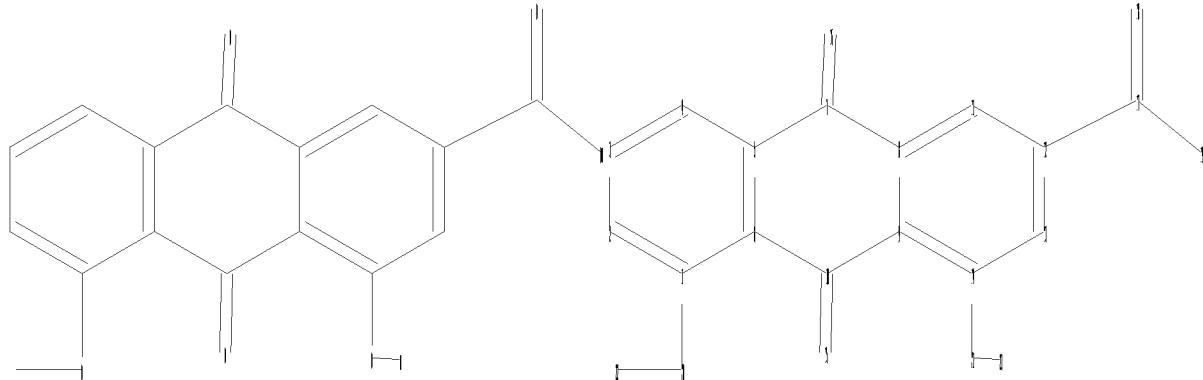
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

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ring nodes :  
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chain bonds :  
1-20 7-16 10-15 12-17 14-21 17-18 17-19 20-22 21-23  
ring bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 8-11 9-10 9-14 11-12 12-13  
13-14  
exact/norm bonds :  
1-20 5-7 6-10 7-8 7-16 9-10 10-15 14-21 20-22  
exact bonds :  
12-17 21-23  
normalized bonds :  
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11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS  
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS

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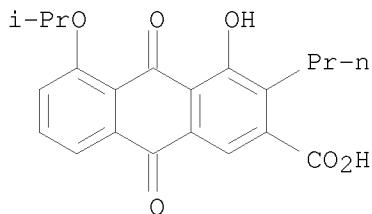
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11 ANSWERS

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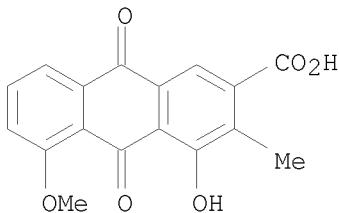
L2 ANSWER 1 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 1099520-12-3 REGISTRY  
ED Entered STN: 02 Feb 2009  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4-hydroxy-5-(1-methylethoxy)-9,10-dioxo-3-propyl- (CA INDEX NAME)  
MF C21 H20 O6  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN  
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ED Entered STN: 02 Feb 2009  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4-hydroxy-5-methoxy-3-methyl-9,10-dioxo- (CA INDEX NAME)  
MF C17 H12 O6  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

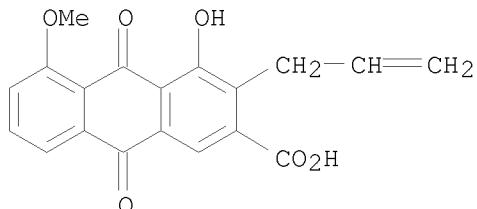


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 1099520-00-9 REGISTRY  
ED Entered STN: 02 Feb 2009

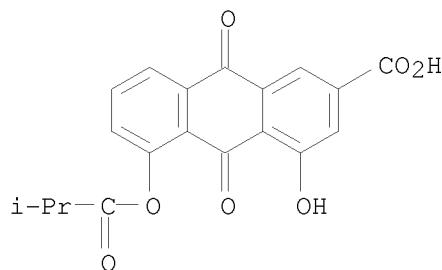
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4-hydroxy-5-methoxy-9,10-dioxo-3-(2-propen-1-yl)- (CA INDEX NAME)  
MF C19 H14 O6  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

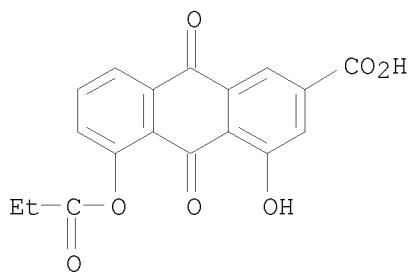
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 4 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 1028299-59-3 REGISTRY  
ED Entered STN: 15 Jun 2008  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4-hydroxy-5-(2-methyl-1-oxopropoxy)-9,10-dioxo- (CA INDEX NAME)  
MF C19 H14 O7  
SR Other Sources  
Database: ChemSpider (ChemZoo, Inc.)



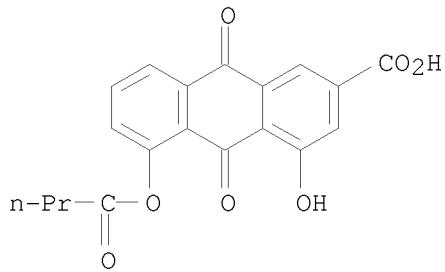
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L2 ANSWER 5 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 1027249-37-1 REGISTRY  
ED Entered STN: 11 Jun 2008  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4-hydroxy-9,10-dioxo-5-(1-oxopropoxy)- (CA INDEX NAME)  
MF C18 H12 O7  
SR Other Sources  
Database: ChemSpider (ChemZoo, Inc.)



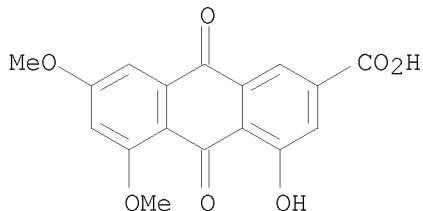
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L2 ANSWER 6 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 1025906-47-1 REGISTRY  
 ED Entered STN: 06 Jun 2008  
 CN 2-Anthracene carboxylic acid, 9,10-dihydro-4-hydroxy-9,10-dioxo-5-(1-oxobutoxy)- (CA INDEX NAME)  
 MF C19 H14 O7  
 SR Other Sources  
     Database: ChemSpider (ChemZoo, Inc.)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

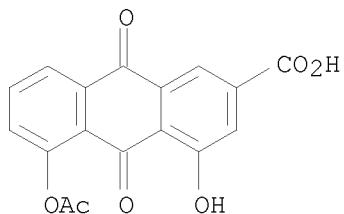
L2 ANSWER 7 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 883125-77-7 REGISTRY  
 ED Entered STN: 05 May 2006  
 CN 2-Anthracene carboxylic acid, 9,10-dihydro-4-hydroxy-5,7-dimethoxy-9,10-dioxo- (CA INDEX NAME)  
 MF C17 H12 O7  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

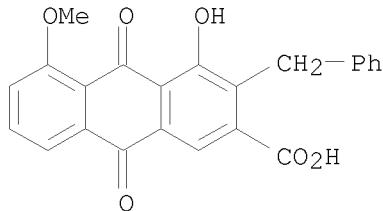
L2 ANSWER 8 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 875535-35-6 REGISTRY  
ED Entered STN: 01 Mar 2006  
CN 2-Anthracenecarboxylic acid, 5-(acetyloxy)-9,10-dihydro-4-hydroxy-9,10-dioxo- (CA INDEX NAME)  
MF C17 H10 O7  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 9 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 202974-90-1 REGISTRY  
ED Entered STN: 22 Mar 1998  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4-hydroxy-5-methoxy-9,10-dioxo-3-(phenylmethyl)- (CA INDEX NAME)  
MF C23 H16 O6  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

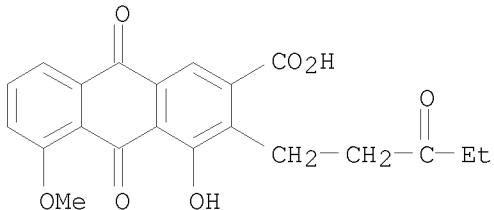


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 10 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 88365-13-3 REGISTRY  
ED Entered STN: 16 Nov 1984

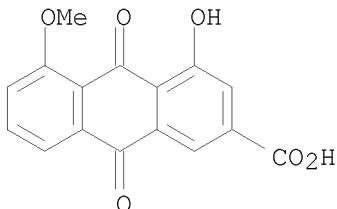
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4-hydroxy-5-methoxy-9,10-dioxo-3-(3-oxopentyl)- (CA INDEX NAME)  
MF C21 H18 O7  
LC STN Files: BEILSTEIN\*, CA, CAPLUS  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 11 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 3300-26-3 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4-hydroxy-5-methoxy-9,10-dioxo- (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 2-Anthraquinonecarboxylic acid, 4-hydroxy-5-methoxy- (6CI)  
CN 2-Anthroic acid, 9,10-dihydro-4-hydroxy-5-methoxy-9,10-dioxo- (7CI, 8CI)  
OTHER NAMES:  
CN Rhein, 8-O-methyl-  
MF C16 H10 O6  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

6 REFERENCES IN FILE CA (1907 TO DATE)  
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	209.39	209.61

FILE 'CAPLUS' ENTERED AT 13:31:50 ON 10 JUN 2009  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 10 Jun 2009 VOL 150 ISS 24  
FILE LAST UPDATED: 9 Jun 2009 (20090609/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 1028299-59-3  
REGISTRY INITIATED  
Substance data SEARCH and crossover from CAS REGISTRY in progress...  
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L4 0 L3

=> s 1028299-59-3/rn  
0 1028299-59-3  
0 1028299-59-3D  
L5 0 1028299-59-3/RN  
(1028299-59-3 (NOTL) 1028299-59-3D )

		SINCE FILE	TOTAL
		ENTRY	SESSION
FULL ESTIMATED COST		11.22	221.81

FILE 'REGISTRY' ENTERED AT 13:37:33 ON 10 JUN 2009  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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STRUCTURE FILE UPDATES: 8 JUN 2009 HIGHEST RN 1154048-98-2  
DICTIONARY FILE UPDATES: 8 JUN 2009 HIGHEST RN 1154048-98-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

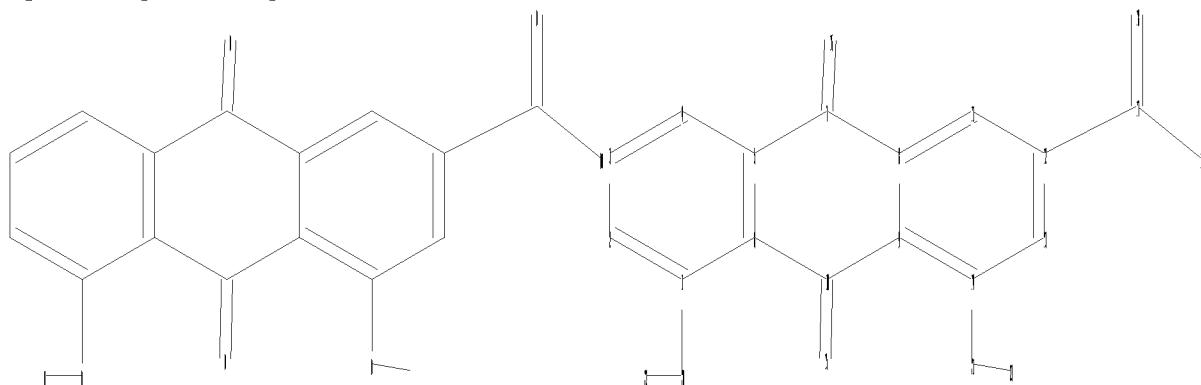
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>  
Uploading C:\Program Files\STNEXP\Queries\10591157b.str



chain nodes :  
15 16 17 18 19 20 21 22 23  
ring nodes :  
1 2 3 4 5 6 7 8 9 10 11 12 13 14  
chain bonds :  
1-20 7-16 10-15 12-17 14-21 17-18 17-19 20-22 21-23  
ring bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 8-11 9-10 9-14 11-12 12-13  
13-14  
exact/norm bonds :  
1-20 5-7 6-10 7-8 7-16 9-10 10-15 14-21 21-23  
exact bonds :  
12-17 20-22  
normalized bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-11 9-14 11-12 12-13 13-14 17-18 17-19

Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS  
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS

L6 STRUCTURE UPLOADED

=> s 16 sss ful

FULL SEARCH INITIATED 13:37:53 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 2230 TO ITERATE

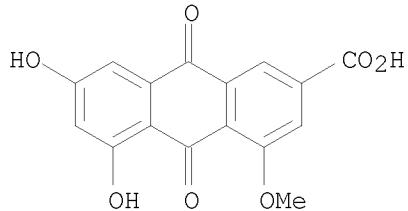
100.0% PROCESSED 2230 ITERATIONS  
SEARCH TIME: 00.00.01

3 ANSWERS

L7 3 SEA SSS FUL L6

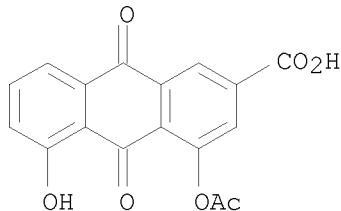
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L7 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 913690-86-5 REGISTRY  
ED Entered STN: 21 Nov 2006  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-5,7-dihydroxy-4-methoxy-9,10-dioxo- (CA INDEX NAME)  
MF C16 H10 O7  
SR Other Sources  
Database: ChemBank (The Broad Institute)  
LC STN Files: CHEMCATS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L7 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 875535-36-7 REGISTRY  
ED Entered STN: 01 Mar 2006  
CN 2-Anthracenecarboxylic acid, 4-(acetoxy)-9,10-dihydro-5-hydroxy-9,10-dioxo- (CA INDEX NAME)  
MF C17 H10 O7  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

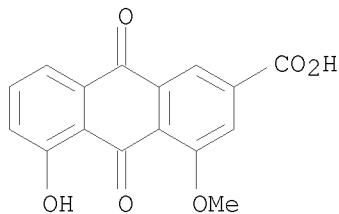


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN

RN 13241-29-7 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-5-hydroxy-4-methoxy-9,10-dioxo-  
(CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 2-Anthroic acid, 9,10-dihydro-5-hydroxy-4-methoxy-9,10-dioxo- (7CI, 8CI)  
MF C16 H10 O6  
LC STN Files: BEILSTEIN\*, CA, CAPLUS  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	192.51	414.32

FILE 'REGISTRY' ENTERED AT 13:38:36 ON 10 JUN 2009  
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STRUCTURE FILE UPDATES: 8 JUN 2009 HIGHEST RN 1154048-98-2  
DICTIONARY FILE UPDATES: 8 JUN 2009 HIGHEST RN 1154048-98-2

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 1028299-59-3/RN

L8 1 1028299-59-3/RN

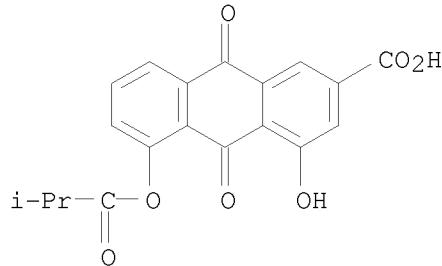
```
=> SET NOTICE 1 DISPLAY
```

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NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND  
SET COMMAND COMPLETED
```

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=> D L8 SQIDE 1-
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YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y  
THE ESTIMATED COST FOR THIS REQUEST IS 6.85 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y
```

```
L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 1028299-59-3 REGISTRY  
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4-hydroxy-5-(2-methyl-1-  
oxopropoxy)-9,10-dioxo- (CA INDEX NAME)  
MF C19 H14 O7  
SR Other Sources  
Database: ChemSpider (ChemZoo, Inc.)
```



```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
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=> SET NOTICE LOGIN DISPLAY
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NOTICE SET TO OFF FOR DISPLAY COMMAND  
SET COMMAND COMPLETED
```

```
=>
```

```
=> file chemspider  
'CHEMSPIDER' IS NOT A VALID FILE NAME  
SESSION CONTINUES IN FILE 'REGISTRY'  
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files  
that are available. If you have requested multiple files, you can  
specify a corrected file name or you can enter "IGNORE" to continue  
accessing the remaining file names entered.
```

```
=>
```

```
Connecting via Winsock to STN
```

```
Welcome to STN International! Enter x:x
```

```
LOGINID:ssptacrs1614
```

PASSWORD:  
TERMINAL (ENTER 1, 2, 3, OR ?):2

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	DEC 01	ChemPort single article sales feature unavailable
NEWS 3	APR 03	CAS coverage of exemplified prophetic substances enhanced
NEWS 4	APR 07	STN is raising the limits on saved answers
NEWS 5	APR 24	CA/CAPLUS now has more comprehensive patent assignee information
NEWS 6	APR 26	USPATFULL and USPAT2 enhanced with patent assignment/reassignment information
NEWS 7	APR 28	CAS patent authority coverage expanded
NEWS 8	APR 28	ENCOMPLIT/ENCOMPLIT2 search fields enhanced
NEWS 9	APR 28	Limits doubled for structure searching in CAS REGISTRY
NEWS 10	MAY 08	STN Express, Version 8.4, now available
NEWS 11	MAY 11	STN on the Web enhanced
NEWS 12	MAY 11	BEILSTEIN substance information now available on STN Easy
NEWS 13	MAY 14	DGENE, PCTGEN and USGENE enhanced with increased limits for exact sequence match searches and introduction of free HIT display format
NEWS 14	MAY 15	INPADOCDB and INPAFAMDB enhanced with Chinese legal status data
NEWS 15	MAY 28	CAS databases on STN enhanced with NANO super role in records back to 1992
NEWS 16	JUN 01	CAS REGISTRY Source of Registration (SR) searching enhanced on STN

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,  
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 11:40:23 ON 15 JUN 2009

=> file registry		SINCE FILE	TOTAL
COST IN U.S. DOLLARS		ENTRY	SESSION
FULL ESTIMATED COST		0.88	0.88

FILE 'REGISTRY' ENTERED AT 11:42:27 ON 15 JUN 2009  
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STRUCTURE FILE UPDATES: 14 JUN 2009 HIGHEST RN 1157585-76-6  
DICTIONARY FILE UPDATES: 14 JUN 2009 HIGHEST RN 1157585-76-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> file caplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.48	1.36

FILE 'CAPLUS' ENTERED AT 11:42:39 ON 15 JUN 2009

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FILE COVERS 1907 - 15 Jun 2009 VOL 150 ISS 25

FILE LAST UPDATED: 14 Jun 2009 (20090614/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 864652-88-0  
REG1stRY INITIATED  
Substance data SEARCH and crossover from CAS REGISTRY in progress...  
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L2

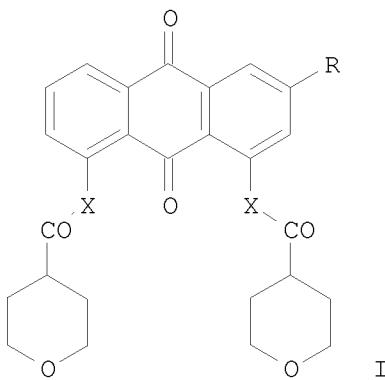
2 L1

=> d 12 ibib abs 1-2

L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2007:175514 CAPLUS  
DOCUMENT NUMBER: 146:251663  
TITLE: Preparation of dihydroxyanthraquinones for therapeutic use as anti-inflammatory agents  
INVENTOR(S): Baxter, Andrew Douglas; Walmsley, Andrea  
PATENT ASSIGNEE(S): Sosei R & D Ltd., UK  
SOURCE: PCT Int. Appl., 22 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007017695	A2	20070215	WO 2006-GB2999	20060810
WO 2007017695	A3	20070518		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
AU 2006277794	A1	20070215	AU 2006-277794	20060810
CA 2618069	A1	20070215	CA 2006-2618069	20060810
EP 1912964	A2	20080423	EP 2006-779122	20060810
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
JP 2009504625	T	20090205	JP 2008-525642	20060810
IN 2008DN00958	A	20080314	IN 2008-DN958	20080204
MX 2008001956	A	20080407	MX 2008-1956	20080208
NO 2008000710	A	20080425	NO 2008-710	20080208
KR 2008043800	A	20080519	KR 2008-704920	20080228
CN 101296916	A	20081029	CN 2006-80033058	20080310
US 20080234258	A1	20080925	US 2008-997660	20080520
PRIORITY APPLN. INFO.:			GB 2005-16469	A 20050810
			WO 2006-GB2999	W 20060810

OTHER SOURCE(S): CASREACT 146:251663; MARPAT 146:251663  
GI



AB Rhein related dihydroxyanthraquinones, such as I [R = morpholin-4-ylcarbonyl, NHet, CO<sub>2</sub>H, CO<sub>2</sub>Et, CO<sub>2</sub>(CH<sub>2</sub>)<sub>2</sub>OMe, X = O; R = CN, tetrazol-5-yl, X = CH<sub>2</sub>], were prepared for use in pharmaceutical compns. useful in the treatment of inflammatory and autoimmune diseases and conditions associated with T-cell proliferation or that are mediated by pro-inflammatory cytokines, particularly IL-1 $\beta$  or IL-18. These autoimmune and inflammatory diseases and conditions may include chronic degenerative disease, such as rheumatoid arthritis, osteoarthritis or osteoporosis, chronic demyelinating disease, such as multiple sclerosis, respiratory disease, such as asthma or chronic obstructive pulmonary disease (COPD), inflammatory bowel disease (IBD) such as ulcerative colitis or Crohn's disease, dermatol. conditions, such as psoriasis, scleroderma or atopic dermatitis, dental diseases, such as periodontal disease or gingivitis, diabetic nephropathy, lupus nephritis, IgA nephropathy, glomerulonephritis, systemic lupus erythematosus (SLE), graft vs. host disease, cancer, diabetic retinopathy, age-related macular degeneration, and conditions characterized by angiogenesis. Thus, dihydroxyanthraquinone I (R = morpholin-4-ylcarbonyl, X = O) was prepared via an amidation reaction with 87% yield of the corresponding carboxylic acid I (R = CO<sub>2</sub>H, X = O) with morpholine using EDCI and HOBt in CH<sub>2</sub>Cl<sub>2</sub>. The prepared compds. were assayed for their effect on serum TNF $\alpha$  and IL-10 levels using the LPS mouse assay, and they were assayed for anti-inflammatory using the Carrageenan paw edema assay in rats.

L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:1004687 CAPLUS

DOCUMENT NUMBER: 143:306044

TITLE: Preparation of ester derivatives of rhein as anti-inflammatory agents

INVENTOR(S): Baxter, Andrew Douglas; Walmsley, Andrea

PATENT ASSIGNEE(S): Arakis Ltd., UK

SOURCE: PCT Int. Appl., 20 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

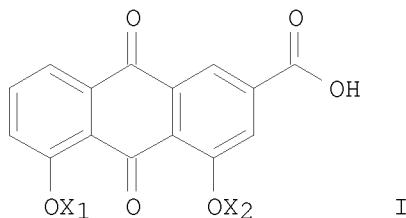
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005085170	A1	20050915	WO 2005-GB832	20050304
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,				

SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
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 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,  
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,  
 MR, NE, SN, TD, TG  
 AU 2005219642 A1 20050915 AU 2005-219642 20050304  
 AU 2005219642 B2 20090423  
 CA 2558082 A1 20050915 CA 2005-2558082 20050304  
 EP 1723097 A1 20061122 EP 2005-726943 20050304  
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR  
 CN 1938258 A 20070328 CN 2005-80009964 20050304  
 BR 2005008352 A 20070731 BR 2005-8352 20050304  
 JP 2007526293 T 20070913 JP 2007-501352 20050304  
 ZA 2006007386 A 20080528 ZA 2006-7386 20050304  
 IN 2006DN04999 A 20070817 IN 2006-DN4999 20060830  
 MX 2006010058 A 20070510 MX 2006-10058 20060904  
 NO 2006004031 A 20060915 NO 2006-4031 20060907  
 KR 2007010142 A 20070122 KR 2006-720192 20060928  
 US 20070185036 A1 20070809 US 2006-591157 20061006  
 PRIORITY APPLN. INFO.: GB 2004-4953 A 20040304  
 WO 2005-GB832 W 20050304  
 OTHER SOURCE(S): CASREACT 143:306044; MARPAT 143:306044  
 GI



AB The title rhein ester derivs. I (X1 = H, COR1; X2 = COR2; X1 ≠ X2 = H; R1, R2 = C1-C4 alkyl, 4 to 7-membered ring) are prepared and evaluated for their anti-inflammatory activity. For example, diacerein was hydrolyzed to the corresponding dihydroxy compound which was acylated with tetrahydro-4-pyranyl chloride to give the 4,5-bis(tetrahydropyran-4-carbonyl)oxy compound, I (X1 = X2 = COR, R = 4-tetrahydropyranyl).

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NEWS 15	MAY 28	CAS databases on STN enhanced with NANO super role in records back to 1992
NEWS 16	JUN 01	CAS REGISTRY Source of Registration (SR) searching enhanced on STN

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DICTIONARY FILE UPDATES: 15 JUN 2009 HIGHEST RN 1158168-92-3

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```
=> e dibenzoylrhein
E1      5      DIBENZOYLRESORCIN/BI
E2      5      DIBENZOYLRESORCINOL/BI
E3      1 --> DIBENZOYLRHEIN/BI
E4      1      DIBENZOYLRUTHEN/BI
E5      1      DIBENZOYLRUTHENOC/BI
E6      1      DIBENZOYLRUTHENOCENE/BI
E7      1      DIBENZOYLS/BI
E8      1      DIBENZOYLSECO/BI
E9      1      DIBENZOYLSECOVERACINTINE/BI
E10     2      DIBENZOYLSELENO/BI
E11     8      DIBENZOYLSELENOPHENE/BI
E12     1      DIBENZOYLSELENOTOLUENE/BI

=> s e3
L1      1 DIBENZOYLRHEIN/BI

=> d e3
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SQD	- Protein sequence data, includes RN
SQD3	- Same as SQD, but 3-letter amino acid codes are used
SQN	- Protein sequence name information, includes RN
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PPROP	- Table of predicted properties
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CBIB -- CA Accession Number, plus Bibliographic Data (compressed)  
IND -- Index Data  
IPC -- International Patent Classification  
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STD -- BIB, IPC, and NCL

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OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations  
SIBIB ----- IBIB, no citations

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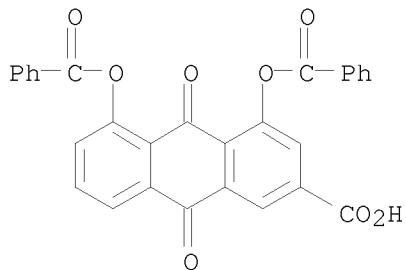
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L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 81686-01-3 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN 2-Anthracenecarboxylic acid, 4,5-bis(benzoyloxy)-9,10-dihydro-9,10-dioxo-  
(CA INDEX NAME)  
OTHER NAMES:  
CN 1,8-Dibenzoyloxy-3-carboxyanthraquinone  
CN 4,5-Dibenzoylrhein  
CN Dibenzoylrhein  
MF C29 H16 O8  
LC STN Files: BEILSTEIN\*, BIOSIS, CA, CAPLUS, EMBASE, TOXCENTER  
(\*File contains numerically searchable property data)



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4 REFERENCES IN FILE CA (1907 TO DATE)  
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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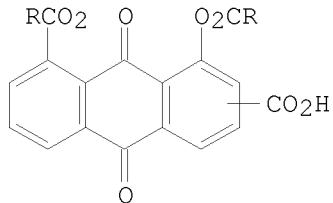
<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L2 4 L1  
=> d l2 ibib abs 1-4

L2 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 1984:144991 CAPLUS  
DOCUMENT NUMBER: 100:144991  
ORIGINAL REFERENCE NO.: 100:22063a,22066a  
TITLE: Pharmaceuticals containing carboxyanthraquinone derivatives for sclerosis treatment  
PATENT ASSIGNEE(S): Proter S.p.A., Italy  
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58225015	A	19831227	JP 1983-29594	19830225
JP 02060647	B	19901217		
PRIORITY APPLN. INFO.:			JP 1983-29594	19830225
GI				



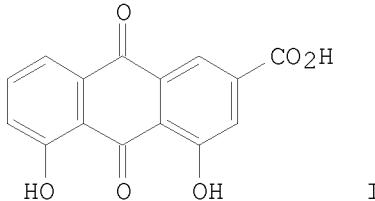
AB Pharmaceuticals for the treatment of sclerosis, especially multiple sclerosis and amyotrophic lateral sclerosis contain the anthraquinone derivs. (I) (R = lower alkyl or phenyl). Thus, 1,8-dihydroxy-3-carboxyanthraquinone [478-43-3] was treated with Ac2O to give 1,8-diacetoxy-3-carboxyanthraquinone (II) [13739-02-1]. Capsules were prepared containing II (250 g) lactose (5 kg) and Mg stearate (50 g). Each capsule contained 25 mg II.

L2 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 1983:535997 CAPLUS  
 DOCUMENT NUMBER: 99:135997  
 ORIGINAL REFERENCE NO.: 99:20849a,20852a  
 TITLE: Catalytic properties of serum albumin  
 AUTHOR(S): Ignesti, G.; Banchelli, M. G.; Pirisino, R.; Raimondi, L.; Buffoni, F.  
 CORPORATE SOURCE: Dep. Pharmacol., Univ. Florence, Florence, Italy  
 SOURCE: Pharmacological Research Communications (1983), 15(6), 569-79  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB Human blood plasma was able to catalyze the reaction between tert-Bu hydroperoxide and 2-nitro-5-mercaptopbenzoic acid. The purification of a protein fraction responsible for this activity indicated it was due to blood plasma albumin; this was also demonstrated using various purified com. albumins. The Vmax and the Km of the reaction and the effect of some substances of pharmacol. or physiol. importance on the same reaction were determined. Some antiinflammatory nonsteroidal drugs showed an inhibitory effect on the phenomenon, similar to that of endogenous substances, such as fatty acids, bilirubin, and arachidonic acid. The ability of other physiol. substances, such as cytochrome c, Hb, and hemin, to catalyze the same reaction was also observed

L2 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 1982:193416 CAPLUS  
 DOCUMENT NUMBER: 96:193416  
 ORIGINAL REFERENCE NO.: 96:31749a,31752a  
 TITLE: Rhein and derivatives. In vitro studies on their capacity to inhibit certain proteases  
 AUTHOR(S): Raimondi, L.; Banchelli Soldaini, G.; Buffoni, F.; Ignesti, G.; Massacesi, L.; Amaducci, L.; Friedmann, C. A.  
 CORPORATE SOURCE: Dep. Pharmacol. Toxicol., Univ. Florence,

SOURCE: Italy  
Pharmacological Research Communications (1982), 14(2),  
103-12  
CODEN: PLRCAT; ISSN: 0031-6989  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
GI



I

AB rhein (I) [478-43-3], 4,5-diacetyl rhein [13739-02-1], 4,5-dipropionyl rhein [81686-02-4] and 4,5-dibenzoyl rhein [81686-01-3] were studied in vitro against certain types of protease [9001-92-7] (pepsin [9001-75-6], trypsin [9002-07-7], carboxypeptidase A [11075-17-5], elastase [9004-06-2]) and compared to 8-aminocaproic acid and to aprotinin. Rhein and its derivs. inhibit the protease in the range of 10<sup>-4</sup>-10<sup>-5</sup>M concns. The relation of these results to the pharmacol. of the rhein derivs. is discussed.

L2 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1912:461 CAPLUS  
DOCUMENT NUMBER: 6:461  
ORIGINAL REFERENCE NO.: 6:79g-i,80a-d  
TITLE: Chrysophanic Acid, Frangula Emodin and some Oxonolum, Compaunda of Anthracene Derivatives. IX  
Fischer, O.; Gross, H.  
AUTHOR(S):  
CORPORATE SOURCE: Chem. Lab., Univ. Erlangen  
SOURCE: Journal fuer Praktische Chemie (Leipzig) (1912), 84, 369-82  
CODEN: JPCEAO; ISSN: 0021-8383  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

AB cf. C. A., 5, 2649 In the prepare of chrysophanic acid from chrysarobin, the demethylation of the com. product by HI need not be carried out under pressure; it is much more easily effected by passing an excess of gaseous HI through a b. glacial AcOH solution of the substance. Another method of prepare consists in oxidizing the crude chrysarobin and separating the mixture of

chrysophanic add and methylemodin either by demethylating with cone. HCl in glacial AcOH under, pressure and treating with Na<sub>2</sub>CO<sub>3</sub>, or by completely methylating with Me<sub>2</sub>SO<sub>4</sub> and crystallizing from AcOEt. Dibenzoylchrysophanic acid, from chrysophanic acid in pyridine and BZCl, m. 212°, is oxidized by CrO<sub>3</sub> in glacial AcOH and Ac<sub>2</sub>O to dibenzoylrhein, yellow prisms grouped in Stars, m. 253-5°, which is hydrolyzed by alc. KOH to rhein, m. 321°. Heated on the H<sub>2</sub>O bath 3-5 hrs. with 15 pts. NH<sub>2</sub> under 50 mm, chrysophanic acid yields a compound C<sub>13</sub>H<sub>11</sub>O<sub>3</sub>N, spherical clusters of needles, assuming a bronze luster on drying, soluble with reddish violet color in alks. and NH<sub>2</sub> with orange color in conc, H<sub>2</sub>SO<sub>4</sub> and gradually passing back into chrysophanic acid when b. with 20% NaOH. The compound must therefore be an imide, as originally assumed by Lieberman and Fischer, and not an amino compound (Oesterle and Johann, C. A., 5, 481). Triacetyl. eraodin is oxidized by CrO<sub>2</sub> in glacial AcOH and Ac<sub>2</sub>O to triacetylemodic acid, C<sub>21</sub>H<sub>14</sub>O<sub>10</sub>, needles, grouped in

stars; alkaline KOH hydrolyzes it to emodinic acid (trihydroxy- $\beta$ -anthraquinonecarboxylic acid), orange-yellow needles, evolves red vapors 340-50° decamp. completely 360°, easily soluble in alks. with reddish violet color, in cone. H<sub>2</sub>SO<sub>4</sub> with yellowish eosin color, forms a violet lack with Ba(OH)<sub>2</sub>, very stable, being practically unchanged by heating at 190° with cone. HCl and glacial AcOH. Neither anthracene, methyl- or chloroanthracenes, anthraquinone, the 2 methylantraquinones, dimethyl- or diethylhydroanthraquinones gave oxonium salts with concentrate HBr or (6-70% HClO<sub>4</sub>; hydroxyanthraquinones form yellowish red to red solns. but even rufigallic acid yielded no salt which could be isolated. The Me and Et ethers of hydroxyanthraquinones, however, did give such salts under certain conditions. Hexamethylrufigallic acid, C<sub>20</sub>H<sub>20</sub>O<sub>8</sub>, from the K salt and Me<sub>2</sub>SO<sub>4</sub> at 120°, light yellow needles, m. 240°. Trimethylemodin in CHCl<sub>3</sub> gives with dry HBr the oxonium salt C<sub>18</sub>H<sub>17</sub>O<sub>8</sub>Br, red precipitate, loses HBr overnight in a desiccator. The zinc bromide double salt, C<sub>18</sub>H<sub>17</sub>O<sub>8</sub>-Br<sub>3</sub>Zn, red crystals, is somewhat more stable. Perchlorate, C<sub>18</sub>H<sub>17</sub>O<sub>8</sub>Cl, scarlet-red crystalline powder. Dimethylchrysophanic acid bromide, scarlet flocks, stable only under the liquid from which it is precipitated; zinc bromide salt, C<sub>17</sub>H<sub>18</sub>O<sub>4</sub>Br<sub>3</sub>Zn, cinnabar-red flocks. 1,8-Dimethoxyanthraquinone bromide, scarlet flocks; zinc bromide salt, C<sub>16</sub>H<sub>18</sub>O<sub>4</sub>Br<sub>3</sub>Zn. The corresponding chlorides and ZnCl<sub>2</sub> salts can be similarly prepared, but they are even more unstable than the bromides.

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